

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number  
**WO 2005/015173 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 21/25**,  
21/77

(21) International Application Number:  
PCT/NL2004/000431

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: Dutch

(26) Publication Language: English

(30) Priority Data:  
1023680 17 June 2003 (17.06.2003) NL

(71) Applicant (for all designated States except US): **NED-  
ERLANDSE ORGANISATIE VOOR TOEGEPAST-  
NATUURWE- TENSCHAPPELIJK ONDERZOEK  
TNO** [NL/NL]; Schoemakerstraat 97, NL-2628 VK Delft  
(NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHOO, Har-  
mannus, Franciscus, Maria** [NL/NL]; Boksheidsdijk  
49, NL-5521 PR Eersel (NL). **VAN VEEN, Jacobus,  
Johannes, Frederik** [NL/NL]; Nieuwemeerdijk 328,

NL-1171 NT Badhoevedorp (NL). **BEKMAN, Her-  
manus, Hendricus, Petrus, Theodorus** [NL/NL];  
Lekstraat 14, NL-1442 RN Purmerend (NL).

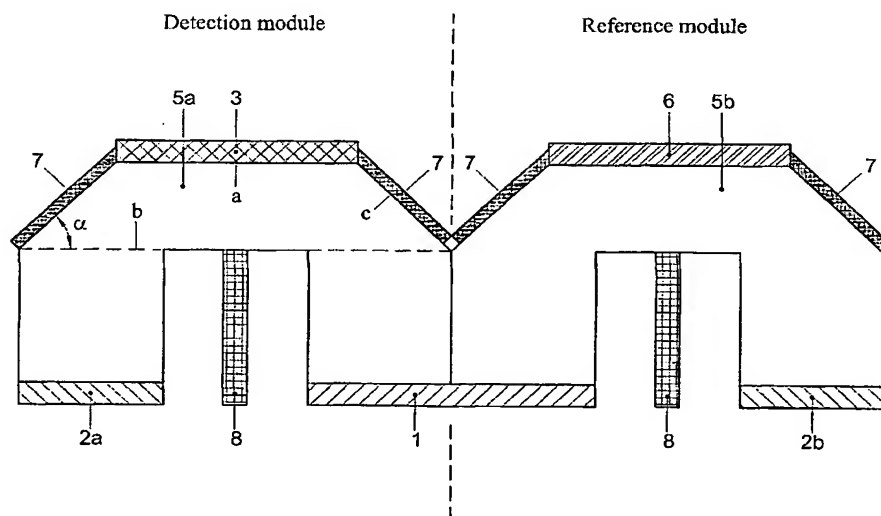
(74) Agent: **WINCKELS, J., H., R.**; Vereenigde, Nicuwe Park-  
laan 97, NL-2587 BN Den Haag (NL).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: **SENSOR COMPRISING POLYMERIC COMPONENTS**



(57) Abstract: The invention relates to an optical sensor comprising at least one detection module which comprises an organic light emitting diode (1) and an organic detection photodiode (2, 2a) for measuring emitted light which during the use of the sensor reaches the photodiode via the sample holder. Optionally, a sensor according to the invention further comprises a plastic waveguide.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— with international search report